

SWPPP Internship

State Water Resources Control Board
Board Meeting May 1 2018 – Item 7

Intern Presenters:

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Anna Vennemeyer
Ellie Larsen
Robbie Hacker
Alex Vennemeyer
Madeline Morton
Delaynie Martin



SWPPP Internship



Improving Water Quality



DROPS Grant



Our Future



Leaders



Shaping the Future



Beyond the School Community



New Phase II Small MS4 Permit



Partnering with Facilities & Maintenance



Interns at Work



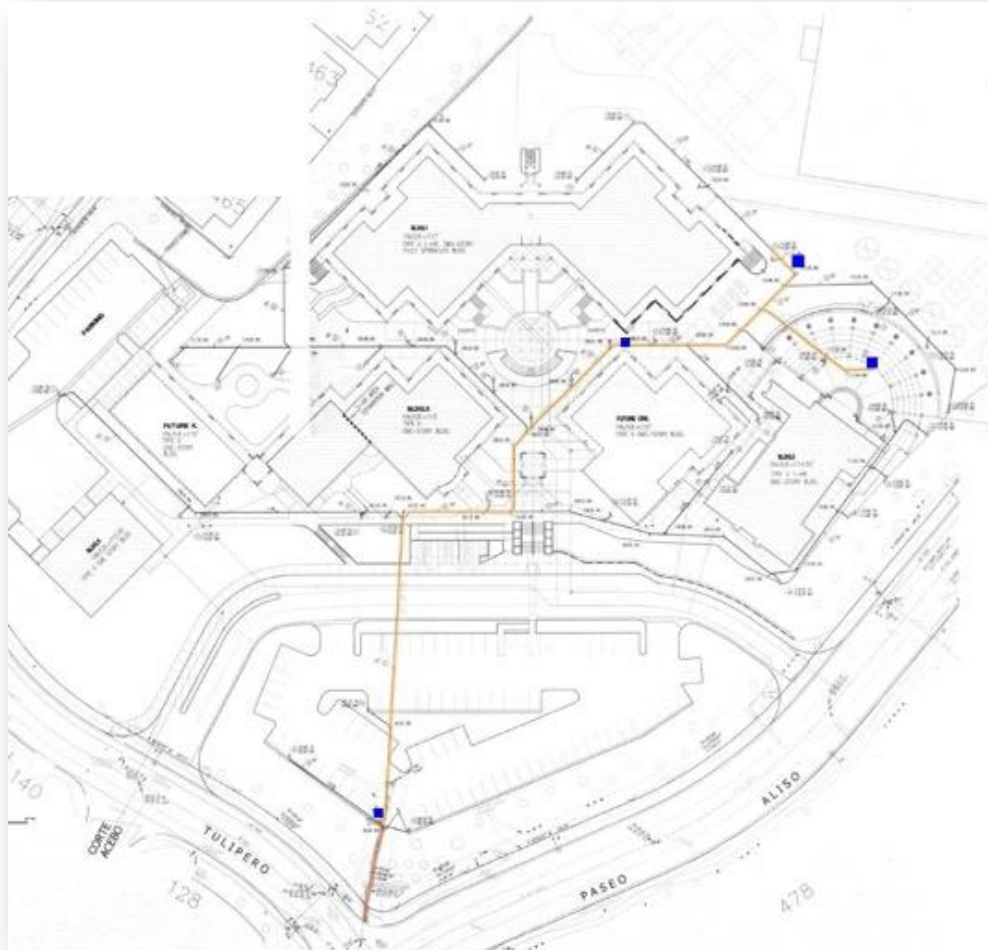
SWPPP Internship Program Design



Research & Education



School Site Storm Drain System



Data Collection & Analysis



Rain Event



Results



Best Management Practices



Our BMPs at El Camino Creek



SWPPP Report Presentation



La Costa Heights Field



DROPS Grant at La Costa Heights



Preliminary Plans



Landscape Architect



Survey & Topography



Contractor Walk Through



Bid Documents

LA COSTA HEIGHTS ELEMENTARY SCHOOL D.R.O.P.S. ENCINITAS UNION SCHOOL DISTRICT

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01 78 30	Warranties, Guarantees, and Bonds	4
01 78 39	Project Record Documents	4
02 00 00	SITework	1
02 41 19	Selective Demolition	5
03 00 00	CONCRETE	1
03 10 00	Concrete Forming and Accessories	4
03 20 00	Concrete Reinforcing	5
03 30 00	Cast-In-Place Concrete	14
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31 22 19	Finish Grading	2
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32 00 00	EXTERIOR IMPROVEMENTS	1
32 01 31	Stabilized Decomposed Granite Surface	6
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32 16 00	Curbs, Gutters, Sidewalks, and Driveways	6
32 31 13	Chain Link Fencing and Gates	5
32 84 00	Planting Irrigation	13
32 91 00	Planting Preparation	13
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Groundbreaking




Golden Shovels



Supervising Construction




Education



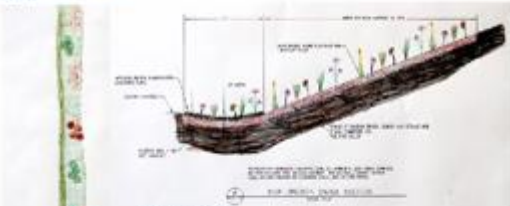
2017-18 WATER QUALITY PROJECT

LA COSTA HEIGHTS ELEMENTARY SCHOOL


With the help of a grant from the state, fifth and sixth-grade SWPPP interns are supervising the construction of a bioswale with a Low-Impact Development design in the back of the field on campus. The bioswale will filter pollutants running off the field and flowing all the way to Batiqitos Lagoon and the ocean at Ponto Beach.




LANDSCAPE PLANTING PLANS




BIOSWALE PLANS




FINAL PROJECT PLANS



"It will help prevent trash from getting into our beloved ocean and the fish will be okay." - Arista, 6th grade intern



"We are creating the SWPPP Bioswale project because our school's field dump is in need of a way to filter the trash so it doesn't go to the ocean. Many leaves, plastics and more (TDS) make it to the ocean everyday because we don't have a sufficient way to stop it." - Madeline, 6th grade intern



"It is important to clean out the dirt from so it doesn't pollute ocean, and the ocean is clean for fish and for us to swim in it." - Parker and London, 6th grade interns

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DROPS at La Costa Heights Parking Lot



DROPS at Olivenhain Pioneer



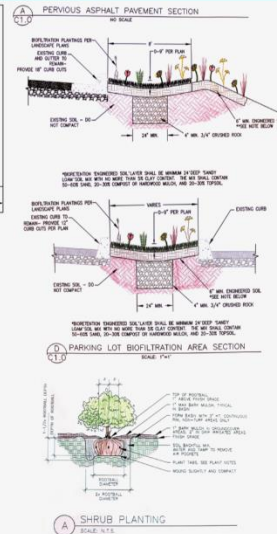
2017-18 WATER QUALITY PROJECT

OLIVENHAIN PIONEER ELEMENTARY SCHOOL

With the help of a grant from the state, fifth and sixth-grade SWPPP interns are supervising the construction of a bioswale with a Low-Impact Development design. The bioswale will filter pollutants running off the parking lot all the way to Batiquitos Lagoon and the ocean at Ponto Beach.



FINAL PROJECT PLANS



"For the parking lot project, we will be putting in permeable pavers so that the water can go into the ground and the TSS and oil and grease will not go down the storm drains to the ocean." - Miles



"Our DROPS project will have curb cut outs, permeable pavers where the cars park and then a bioswale to soak up the stormwater. With all of these things, it will make less water going down the storm drain and will filter the water going into the ground. It is going to make the parking lot stormwater very clean!" - Savanna



"For our DROPS project, we got to work with surveyors and landscape architects so that we could help plan out how the project would work and also what kind of plants will go in the bioswale. We learned that the plants help filter out the pollutants so the less pollutants will make it down the storm drain." - Sienna



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Data Collection



Adding Pervious Pavement



Supervising Construction



Ribbon Cutting Event



In the Rain



Real Change



Litter Campaigns



Student Voices



The Next Generation



It Takes a Village



DUDEK



Shaping the Future



Thank You!